Publication number:

0 290 421 A3

3

EUROPEAN PATENT APPLICATION

(2) Application number: 88870081.2

(5) Int. Cl.5. A23D 5/00, A23D 3/00

(22) Date of filing: 06.05.88

© Priority: 06.05.87 US 47367 15.04.88 US 176712

② Date of publication of application: 09.11.88 Bulletin 88/45

Designated Contracting States:

AT BE CH DE ES FR GB GR IT LI LU NL SE

Date of deferred publication of the search report:18,04.90 Bulletin 90/16

Applicant: THE PROCTER & GAMBLE COMPANY
 One Procter & Gamble Plaza
 Cincinnati Ohio 45202(US)

Inventor: Orphanos, Peter D. 3120 Westbrook Drive Cincinnati Ohio 45238(US) Inventor: Bernhardt, Christian A. 3559 Mack Road Fairfield Ohio 45014(US) Inventor: Madison, Bryan L. 5927 Belmont Avenue Cincinnati Ohio 45224(US) Inventor: Seiden, Paul 2890 Grandin Road Cincinnati Ohio 45208(US) Inventor: Ehrman, Albert M. 355 Halidonhill Drive Cincinnati Ohio 45228(US) Inventor: Baginski, John R. 6392 Roth Ridge Drive Loveland Ohio 45140(US) Inventor: Guffey, Thimothy B. 7333 Jerry Drive West Chester Ohio 45069(US)

(4) Representative: Suslic, Lydia et al Procter & Gamble European Technical Center N.V. Temselaan 100 B-1820 Strombeek-Bever(BE)

(S) Improved sucrose fatty acid ester compositions and shortening and margarines made therefrom.

(57) The present invention relates to intermediate melting sucrose fatty acid ester compositions that are capable of rapid crystallization from a melted state. The compositions comprise 60% to 97% by weight intermediate melting sucrose fatty acid esters mand 3% to 40% hardstock triglycerides or hardstock olyol fatty acid esters. Preferably the average fatty acid chain length of the hardstock material fatty Nacids is not less than the average fatty acid chain Tength of the intermediate melting sucrose ester fatty acids. The sucrose fatty acid esters are charactergized by their rheology, liquid/solid stability, iodine Nvalue, and solids at body temperature. Rapid crystallization of the esters is useful in preventing anal leakage, and it could also translate into a reduction eakage, and it could also translate into a reduction of post-hardening in shortenings and margarines, and into improved high temperature stability and temperature cycling stability as may be encountered during distribution of these products to the end user.

EUROPEAN SEARCH REPORT

EP 88 87 0081

DOCUMENTS CONSIDERED TO BE RELEVANT				
Category	Citation of document with it of relevant pa	ndication, where appropriate, ssages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
Е	EP-A-O 287 157 (TH CO.) * Page 4, line 24 -		1,2,9-	A 23 D 5/00 A 23 D 3/00
X	US-A-4 241 054 (R. al.) * Claims 1-3,5,6,7, 25 - column 4, line 32 - column 7, line 31-50,53 - column 1	12; column 3, line 59; column 5, line 7; column 9, lines	1,16,19	
P,A	EP-A-O 233 856 (TH CO.) * Claims 1-6; page page 12, line 16; p page 14, line 18; p page 15, line 15; p examples 1,2; page	9, lines 1-3,34 - age 13, line 11 - age 14, line 22 - age 16, lines 1-16,	1,16,19	
D,A	US-A-3 600 186 (F. * Claims 1-6; colum column 3, line 26; column 4, line 31;	n 2, line 69 - column 3, line 62 -	1,16,19	TECHNICAL FIELDS SEARCHED (Int. CL4)
A	US-A-4 626 441 (ME * Column 4, line 49 27; claims 1,12-15,	- column 5, line	1,16,19	A 23 D
A	3 - column 6, line	H. MATTSON) 26-39; column 5, line 59; column 10, lines VI; claims 1-6,16-21	1,16,19	
TH	The present search report has Place of search E HAGUE	been drawn up for all claims Date of completion of the search 22-12-1989	DEK	Examiner EIREL M.J.
<u> </u>	CATEGORY OF CITED DOCUME			
V	CATEGORY OF CITED DOCUME	E: theory or princ E: earlier patent after the filing	document, but pul	

X: particularly relevant if taken alone
Y: particularly relevant if combined with another
document of the same category
A: technological background
O: non-written disclosure
P: intermediate document

after the filing date

D: document cited in the application
L: document cited for other reasons

& : member of the same patent family, corresponding document